

Klamath Bird Observatory Spring Point Counts and Fall Area Searches: 2009 Effort Report

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Introduction

In 2009, the Klamath Bird Observatory (KBO) continued implementing bird and habitat monitoring efforts in southwest Oregon and northern California. These Oregon-Washington and California Partners in Flight (PIF) efforts represent collaboration between KBO and the US Forest Service Redwood Sciences Laboratory to maintain the Klamath Bird Monitoring Network (Alexander et al. 2004b). As part of this Network we maintain long-term efforts to track population trends and demographics at constant effort mist netting stations, breeding bird survey routes, extensive point count and area search routes, and aquatic bird monitoring sites throughout the bioregion. This report summarizes KBO's point count and area search survey efforts. Our demographic monitoring efforts at constant effort mist netting stations are documented in a separate report (Frey et al. 2010).

The objectives of our extensive point count and area search program are to: (1) maintain a long-term monitoring effort for tracking landbird population trends; (2) study bird and habitat relationships to better understand the ecological effect of land management and restoration; and (3) use science to link PIF conservation objectives with priority land management issues.

In 2009 we conducted bird and habitat surveys for long-term monitoring and avian inventory, as well as in conjunction with studies addressing the relationship between birds and fuels reduction, wildfire, grazing, oak woodland restoration, and wetland restoration. During the spring breeding season, KBO surveyed 134 routes including 1952 stations and 159 visits, for a total of 2171 point count surveys completed in 2009 (Table 1). In addition, during the dispersal and migration season, KBO surveyed 25 routes in 28 survey days, consisting of 203 fall area search surveys completed (Table 2).

Bird and Habitat Surveys

In 2009, Klamath Bird Observatory continued to conduct bird and habitat surveys in southwestern Oregon and northern California. Standard point count and area search survey methodologies were used during breeding and dispersal/migration seasons respectively, and standard vegetation monitoring techniques were followed (Ralph et al. 1993). Point count surveys employ variable circular plot distance sampling

methodologies (Alexander et al. 2004a, Fancy 1997). Area search surveys are completed at the same locations as point count surveys following a 20-minute fixed radius methodology. Habitat surveys are conducted using a rel  ve methodology at all survey locations (Ralph et al. 1993).

Long-term Monitoring

One of the objectives of Partners in Flight’s Monitoring Working Group (Hussell and Ralph 1998), and the North American Bird Conservation Initiative (US NABCI 2007) is to track long-term bird population trends. KBO contributes to this objective by conducting point count surveys on long-term Breeding Bird Survey (BBS) routes, at constant effort mist netting sites, and along additional Klamath Bird Monitoring Network survey routes in the Upper Klamath Basin (Table 1). In addition, KBO continued to monitor a route on the Bear Creek Greenway bike path in Ashland, Oregon. In 2009, we completed the second year of a long-term monitoring project in association with the National Park Service Klamath Network Inventory and Monitoring Program (Stephens et al. In Press). This year surveys were completed at Whiskeytown National Recreation Area, one of six Network parks (Crater Lake National Park, Lassen Volcanic National Park, Lava Beds National Monument, Oregon Caves National Monument, Redwood National and State Parks, and Whiskeytown National Recreation Area) (Table 1).

Wildfire and Fuel Reduction Treatments

In 2009, KBO’s fire research focused on fuel reduction projects at a number of sites within the Klamath-Siskiyou Bioregion. In addition, we continued to monitor the Quartz Wildfire, now 8 years post-burn.

We conducted a fifth year of spring and fall bird and habitat surveys in Winema-Fremont National Forest fuel reduction treatment units near Rocky Point. Data collected as part of this effort included before and after treatment surveys. In addition, we completed a fourth year of spring and fall monitoring in both the Chiloquin Community Fuels Reduction and the Ninemile North projects on the Winema-Fremont National Forest (Table 1, Table 2).

We completed a third field season of work within Medford BLM’s Rogue River Pilot Project, which was initiated in 2006. This project will reduce fuels along the recreational corridor of the Rogue River from Findley Bend to Galice. Point count stations saturate the upland and riparian habitat within the project area. All points were surveyed twice during the spring to create a robust model of the effects of various fuel treatments on the bird communities in the corridor (Table 1).

Restoration

KBO continued several ongoing studies to monitor the effects of restoration efforts. We completed a fifth year of monitoring on a parcel of private property in the Cascade Siskiyou National Monument, which was fenced in 2004 to exclude cattle, as part of our ongoing work to evaluate the effects of grazing on bird communities within the Monument (Table 1).

In spring of 2009, KBO completed 3 survey visits on a parcel of private land in the Colstin Valley, southwest of Ashland, Oregon. Surveys were completed prior to oak woodland restoration treatments and monitoring will continue after restoration efforts begin (Table 1). This project involves a collaboration with US Fish and Wildlife Service Partners for Fish and Wildlife Program and the Lomakatsi Restoration Project.

KBO continued our monitoring efforts at the BLM's Wood River Wetland restoration project (Table 1). The data collected at this important area, and as part of our broad-scale long-term monitoring program in the Upper Klamath Basin, will continue to provide valuable information about the effectiveness of wetland rehabilitation efforts at Wood River.

Conclusion

In 2009 the Klamath Bird Observatory continued working with our partners to maintain our Oregon-Washington and California Partners in Flight long-term monitoring program. These efforts, coupled with our long-term demographic monitoring, and efforts implemented by the US Forest Service Redwood Sciences Laboratory and other partners to monitor birds as part of the Klamath Bird Monitoring Network, represents one of the most comprehensive regional bird monitoring programs in the world.

Acknowledgements

Our 2009 effort represents an extensive partnership involving many cooperators including: American Bird Conservancy; Ashland Public Schools; Bureau of Land Management Oregon State Office and Medford and Lakeview Districts; Bureau of Reclamation; Charlotte Martin Foundation; City of Ashland; Fremont-Winema, Rogue River - Siskiyou National Forests; Joint Fire Sciences Program; Klamath County, Oregon; Lomakatsi Restoration; National Fish and Wildlife Foundation; National Park Service Klamath Network and Oregon Caves National Monument; Oregon Department of Fish and Wildlife; Oregon Watershed Enhancement Board; Redwood State Parks, Rogue-Siskiyou National Forest; Rogue Valley Audubon Society; Southern Oregon University; United States Fish and Wildlife Service Partners for Fish and Wildlife Program, and others. We would like to acknowledge the contractors that completed spring and fall surveys for KBO: Jim DeStaebler, John Gallo, Lyndia Hammer, Dave Haupt, Sherri Kies, Frank Lospalluto, and Kevin Spencer.

Table 1. KBO point count and vegetation survey effort during spring of 2009 [Spring Stations = number of stations surveyed during spring visits; Spring Visits = number of site visits during spring; Spring Surveys = Total number of surveys during spring].

Project	Site Code	Site Name	Spring Stations	Spring Visits	Spring Surveys
Long-term Monitoring					
Breeding Bird Survey	BALD MT	Bald Mountain	50	1	50
	BARTLE	Bartle	50	1	50
	MCCLOUD	McCloud	50	1	50
	MEDICINE MT	Medicine Mountain	50	1	50
	MERRILL	Merrill	50	1	50
	PAUNINA	Paunina	50	1	50
	TIONESTA	Tionesta	50	1	50
Subtotal			350	7	350
Ashland	BIKE	Bike Trail	13	1	13
Subtotal			13	1	13
Mist Netting Sites:	7MIL	Seven Mile	3	1	3
Eastside Cascade	CABN	Cabin	4	1	4
Range	JOHN	Johnson Creek	5	1	5
	ODES	Odessa Creek	4	1	4
	TOPS	Topsy	4	1	4
	WILL	Williamson River	4	1	4
	WOOD	Wood River	4	1	4
Subtotal			28	7	28
Mist Netting Sites:	ANT1	Antelope Creek	3	1	3
Westside Cascade	ASWA	Ashland Watershed	2	1	2
Range	HCME	Horse Creek Meadow	2	1	2
	JENC	Jefferson Nature Center	4	1	4
	NMTP	North Mountain Park	2	1	2
	ORCA	Oregon Caves	2	1	2
	WIIM	Wildlife Images	6	1	6
	WIWI	Willow Wind	4	1	4
Subtotal			25	8	25
National Park Service	WH01	Whiskeytown 01	12	1	12
Klamath Network	WH02	Whiskeytown 02	12	1	12
	WH03	Whiskeytown 03	12	1	12
	WH04	Whiskeytown 04	12	1	12
	WH05	Whiskeytown 05	12	1	12
	WH06	Whiskeytown 06	12	1	12
	WH07	Whiskeytown 07	12	1	12
	WH08	Whiskeytown 08	12	1	12
	WH09	Whiskeytown 09	12	1	12
	WH10	Whiskeytown 10	12	1	12
	WH11	Whiskeytown 11	12	1	12
	WH12	Whiskeytown 12	12	1	12
	WH13	Whiskeytown 13	12	1	12
	WH14	Whiskeytown 14	12	1	12
	WH15	Whiskeytown 15	12	1	12
	WH16	Whiskeytown 16	12	1	12
	WH17	Whiskeytown 17	12	1	12
	WH18	Whiskeytown 18	12	1	12
	WH19	Whiskeytown 19	12	1	12

Table 1 continued.

Project	Site Code	Site Name	Spring Stations	Spring Visits	Spring Surveys
Long-term Monitoring					
National Park Service	WH20	Whiskeytown 20	12	1	12
Klamath Network	WH21	Whiskeytown 21	12	1	12
<i>continued</i>	WH22	Whiskeytown 22	12	1	12
	WH23	Whiskeytown 23	12	1	12
	WH24	Whiskeytown 24	12	1	12
	WH25	Whiskeytown 25	12	1	12
	WH26	Whiskeytown 26	12	1	12
	WH27	Whiskeytown 27	12	1	12
	WH28	Whiskeytown 28	12	1	12
	WH29	Whiskeytown 29	12	1	12
	WH30	Whiskeytown 30	12	1	12
Subtotal			360	30	360
Upper Klamath	AGLA	Agency Lake	17	1	17
	CANU	Canoe	20	1	20
	CHICKB	Chicken Hill B	15	1	15
	CHICKC	Chicken Hill C	25	1	25
	GERBER	Gerber Reservoir	25	1	25
	MAEG	Mare's Egg	22	1	22
	PEBA	Pelican Bay	23	1	23
	SOBU	Solomon Butte	15	1	15
	SPCR	Spencer Creek	22	1	22
	STMT	Stukel Mountain	23	1	23
	SURD	Surveyor Mountain D	20	1	20
	SURE	Surveyor Mountain E	20	1	20
	SUVA	Surveyor Mountain A	25	1	25
	TOPSY	Topsy	15	1	15
Subtotal			287	14	287
Wildfire and Fuels Reduction Treatments					
Chiloquin	CFR1	Chiloquin Fuels Reduction 1	15	1	15
	CFR2	Chiloquin Fuels Reduction 2	15	1	15
	CFR3	Chiloquin Fuels Reduction 3	15	1	15
	CFR4	Chiloquin Fuels Reduction 4	12	1	12
	CFR5	Chiloquin Fuels Reduction 5	14	1	14
	NMN1	Ninemile North 1	15	1	15
	NMN2	Ninemile North 2	16	1	16
	NMN3	Ninemile North 3	16	1	16
	NMN4	Ninemile North 4	16	1	16
	NMN5	Ninemile North 5	15	1	15
Subtotal			149	10	149
Quartz Fire	230	Road 230	18	1	18
	500	Road 500	20	1	20
	550	Road 550	20	1	20
	600	Road 600	18	1	18
	7MLA	Seven Mile Trail	15	1	15
	DUGA	Duncan Gap	20	1	20
	DUTC	Dutchman Ridge	15	1	15
	KEME	Kenney Meadows	18	1	18
	LIKA	Lick Gulch A	16	1	16
	LIKB	Lick Gulch B	20	1	20

Table 1 continued.

Project	Site Code	Site Name	Spring Stations	Spring Visits	Spring Surveys
Wildfire and Fuels Reduction Treatments					
Quartz Fire	PCT	Pacific Crest Trail	16	1	16
<i>continued</i>	SKAT	Skate Gulch Road	18	1	18
	SKAW	Skate Gulch Walk	16	1	16
	TRMO	Trillium Mountain	13	1	13
	WRAN	Wrangle Camp	15	1	15
Subtotal			258	15	258
Rocky Point	3455	Road 3455	21	1	21
	3633	Road 3633	20	1	20
	EAGLE	Eagle Ridge	24	1	24
	FOMI/PFSS	Four Mile/ Pelican F.S. Station	12	1	12
	HARR	Harrison	12	1	12
	MASP/MASN	Malone Springs North/ Malone Springs South	12	1	12
	MLOC	Mountain Lakes Organizational Camp	15	1	15
	PECI	Pelican Cinder Cone	11	1	11
	R500	Road 500	20	1	20
	RECZ	Recreation Creek Z	11	1	11
	RPTR	Rocky Point Resort	13	1	13
	TOMA	Tomahawk Mountain	12	1	12
	VARN	Varney Creek	19	1	19
	WOCP/OCPI	West Odessa Cinder Pit/Odessa Cinder Pit	10	1	10
Subtotal			212	14	212
Rogue River Pilot Project	RRP01	Rogue River Pilot 1	8	2	16
	RRP02	Rogue River Pilot 2	11	2	22
	RRP03	Rogue River Pilot 3	9	2	18
	RRP04	Rogue River Pilot 4	11	2	22
	RRP05	Rogue River Pilot 5	9	2	18
	RRP06	Rogue River Pilot 6	13	2	26
	RRP07	Rogue River Pilot 7	9	2	18
	RRP08	Rogue River Pilot 8	8	2	16
	RRP09	Rogue River Pilot 9	13	2	26
	RRP11	Rogue River Pilot 11	12	2	24
	RRP12	Rogue River Pilot 12	6	2	12
	RRP13	Rogue River Pilot 13	10	2	20
	RRP14	Rogue River Pilot 14	9	2	18
	RRP15	Rogue River Pilot 15	6	2	12
	RRP16	Rogue River Pilot 16	4	2	8
	RRP17	Rogue River Pilot 17	12	2	24
	RRP18	Rogue River Pilot 18	8	2	16
	RRP19	Rogue River Pilot 19	9	2	18
	RRP20	Rogue River Pilot 20	9	2	18
	RRP21	Rogue River Pilot 21	5	2	10
	RRP22	Rogue River Pilot 22	6	2	12
	RRPBT	Rogue River Pilot 23	13	2	26
Subtotal			200	44	400

Table 1 continued.

Project	Site Code	Site Name	Spring Stations	Spring Visits	Spring Surveys
Restoration					
Cascade Siskiyou National Monument	CLAY	Clayton Property	12	1	12
Subtotal			12	1	12
Upper Klamath Basin	NODM/UPWR	North Marsh/Upper Wildlife Refuge	16	1	16
Wood River Wetland	PEDI/SODI/ SOSP/LOWR SMDI	Petric Dike/South Dike/ South Spit/Lower Wood River Sevenmile Dike	16 14	1 1	16 14
Subtotal			46	3	46
USFWS Partners Program	TEMP	Temple	9	3	27
Subtotal			9	3	27
Grand Total			1949	157	2167

Table 2. KBO area search and vegetation survey effort during fall of 2009 [Fall Stations = number of stations surveyed during fall visits; Survey Days = number of survey days to complete the site in fall].

Project	Site Code	Site Name	Fall Stations	Fall Visits
Wildfire and Fuels Reduction Treatments				
Chiloquin	CFR1	Chiloquin Fuels Reduction 1	7	1
	CFR2	Chiloquin Fuels Reduction 2	7	1
	CFR3	Chiloquin Fuels Reduction 3	7	1
	CFR4	Chiloquin Fuels Reduction 4	7	1
	CFR5	Chiloquin Fuels Reduction 5	7	1
	NMN1	Ninemile North 1	7	1
	NMN2	Ninemile North 2	8	1
	NMN3	Ninemile North 3	8	1
	NMN4	Ninemile North 4	8	1
	NMN5	Ninemile North 5	8	1
Subtotal			74	10
Rocky Point	3455	Road 3455	14	2
	3633	Road 3633	16	2
	EAGLE	Eagle Ridge	16	2
	FOMI/PFSS	Four Mile/ Pelican Forest Service Station	6	1
	HARR	Harrison	6	1
	MASP/MASN	Malone Springs North/	8	1
	MLOC	Mountain Lakes Organizational Camp	8	1
	PEBA	Pelican Bay	8	1
	PECI	Pelican Cinder Cone	7	1
	R500	Road 500	8	1
	RECZ	Recreation Creek Z	6	1
	RPTR	Rocky Point Resort	6	1
	TOMA	Tomahawk Mountain	6	1
	VARN	Varney Creek	8	1
	WOCP/OCPI	West Odessa Cinder Pit/Odessa Cinder Pit	6	1
Subtotal			129	18
Grand Total			203	28

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